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(Materials- Fuels, TT, v. 7, no. 7)

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1. Title: Isoparaffins
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DESCRIPTORS: *Alkyl radicals, *Aviation fuels, Production, Chemical reactions, *Hydrocarbons, Thermodynamics, *Ethylenes, Heat of reaction, Octane, Gasoline, Anti-knock, Sulfuric acid, Fractionation, Esters, Chain reactions.

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(Materials--Fuels, TT, v. 7, no. 8)

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DESCRIPTORS: *Alkyl radicals, Benzenes, Butenes,
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DESCRIPTORS: *Hydrocarbons, Chemical reactions,
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engineering, Sulfuric acid, Catalysts, Fuel oils,
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DESCRIPTORS: *Isoprene, *Pentenes, Molecular structure, *Catalysts, Dehydrogenation.

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Vinylisopropenylbenzenes in the Presence of $TiCl_4$.
by Yu. G. Mamedaliev, S. M. Aliev, et al.
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Order from ATS ATS-86Q71R

Trans. of Akad[emiya] Nauk Azerbaidzhan[skoy] SSR [Baku]. Dokl[ady] 1963, v. 19, no. 1, p. 13-18.

DESCRIPTORS: *Styrenes, Methyl radicals, Vinyl radicals, Propenes, *Benzene derivatives, Vapors, Alkylation, Dehydrogenation, Fluidized solids, *Catalysts, Oxides.

(Chemistry--Organic, TT, v. 10, no. 10)

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2. Title: Vinyl isopropenyl benzene
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- II. Mamedaliev, G. M.
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CATALYTIC DESULFURIZATION OF GASOLINE, I.
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Order from CTS or SLA \$1.10

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Trans. of Zhurnal Prikladnoi Khimii (USSR) 1965, v. 18
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DESCRIPTORS: Catalysts, Gasoline, Sulfur compounds,
Fuels, Clays, Hydrocarbons, Decomposition, Separation.

A study of the suitability of 12 samples of clays from four regions on the Apsheron peninsula in USSR for catalytic desulfurization of gasoline showed that some natural clays can be used without activation for this process, effecting removal of up to 88% of the sulfur from samples with an initial sulfur content of 0.059% at 400°C. However, at this temperature partial cracking may occur and the optimal conditions are thought (Materials - Fuels, TT, v. 6, no. 8)

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61-18242

1. Title: Desulfurization
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[1961] 8p. 11 refs.
Order from OTS or SLA \$1.10 61-16984

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1943, v. 16,
p. 143-150.

DESCRIPTORS: *Lubrication, *Oils, *Waxes, Decom-
position.

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for aviation oils with respect to viscosity index, oxida-
tion stability, low pour point and low specific gravity,
as well as high flash point, are obtained from products
of cracking paraffin wax. Polymerization of cracked
distillates to synthetic lubricating oils in the presence
of aluminum chloride takes place not only at low tem-
peratures 125-130°C. The qualitative and quantitative
characteristics are identical in both cases. At the
(Chemistry--Organic, IT, v. 6, no. 8) (over)

61-16984

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Mamedli, M. G. and Aliev, M. S.
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Topliv). [1961] [12]p. 5 refs. AF 1419499.
Cited from OIS or SLA \$1.00 61-28351

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DESCRIPTORS: Industrial production, Chemical analysis, Jet engine fuels, Fractionation, Hydrocarbons, Recombination, Aluminum compounds, Chlorides, Gasolysis, Catalysts, Distilling plants, Temperature, Pyrolysis, Fuels.

Tests showed that it is possible to produce high-quality T-1 jet fuel from the middle fractions of light thermal cracking products. The established optimum conditions for catalytic conversion of the hydrocarbons contained (Engineering-Chemical, TT, v. 7, no. 7) (over)

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CEA-tr-R-1374 Uncl.

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JCL or LC

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TWO-LAYER FORMATION. [1961] 4p.
Order from ATS \$6.85 ATS-40N55R

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DESCRIPTORS: Petroleum, Recovery, Fluid flow,
Boundary layer, Separation.

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